

Title (en)

APPARATUS FOR SIMULTANEOUSLY EFFECTING ELECTRO-CHEMICAL MEASUREMENT AND MEASUREMENT OF TUNNELLING CURRENT AND TUNNEL PROBE THEREFOR

Publication

EP 0381337 A3 19910227 (EN)

Application

EP 90300532 A 19900118

Priority

JP 2155089 A 19890131

Abstract (en)

[origin: EP0381337A2] Apparatus for simultaneously effecting electro-chemical measurement and measurement of tunnelling current comprises circuitry (17) for setting a potential of a sample (11) and for detecting a current flowing between the sample and a counter electrode (13), circuitry (23) for changing the distance between the sample and the tunnel probe, and circuitry (20) for setting a potential of the tunnel probe and for detecting tunnelling current flowing due to the potential difference between the tunnel probe (3) and the sample (11). The tunnel probe is formed from a material selected from gold, a gold alloy containing gold as the main component, carbon, and a carbon compound.

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G01N 27/00

IPC 8 full level

G01B 7/34 (2006.01); **G01N 23/00** (2006.01); **G01N 27/00** (2006.01); **G01N 27/26** (2006.01); **G01N 27/416** (2006.01); **G01Q 60/10** (2010.01); **G01Q 60/16** (2010.01); **G01Q 60/60** (2010.01); **H01J 37/28** (2006.01)

CPC (source: EP US)

B82Y 35/00 (2013.01 - US); **G01Q 60/02** (2013.01 - EP US); **G01Q 60/16** (2013.01 - EP US); **G01Q 60/60** (2013.01 - EP US); **Y10S 977/879** (2013.01 - EP US)

Citation (search report)

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